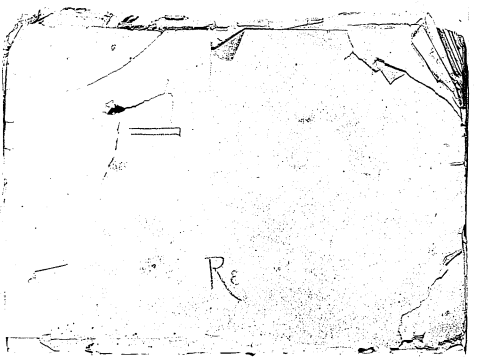
Pocket Notebook
PN-70-12-25

This is one of two pocket notebooks used by Edison in January 1871. (One entry is dated 25 December 1870, but it was likely made the following January.) Most of the entries relate to automatic telegraphy, particularly the design of perforators, and to the development of an electric sewing machine. There are also notes on printing telegraphy, a list of hours worked on a screw-thread unison, a circuit diagram for testing magnets, and an entry regarding the use of the Paine engine for flying machines. The cover is missing. The pages are unnumbered, and several pages have been torn from the book. Approximately 110 pages have been used.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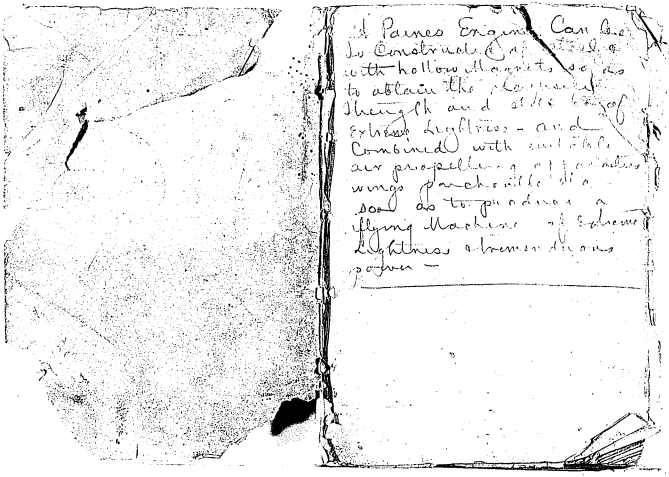
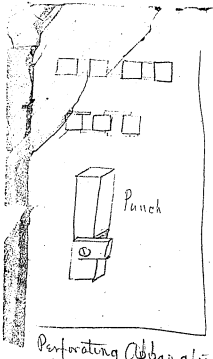

Parnes Engine Can be
Constructed
with hollow magnets so as
to obtain the
Strength and
Extreme lightness - and
Combined with suitable
air propellers
wings parachutelle &c
so as to produce a
flying Machine - of extreme
lightness & tremendous
power —



Perforating Abbaratus made with ~~peculiar~~ ordinary punch & dies and knifes upon the punches Extending over the intermediate spaces between each punch hole

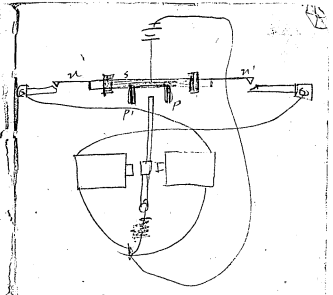
So that if six punches & dies a suitably Combined with proper mechanism six punch holes Can be made thus

□□□□□□

but if it is desired to perforate a dash and 4 dots thus

□□□□□

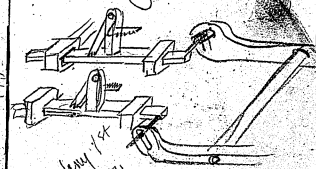
it can be done by depressing the first two keys of the machine than is necessary to perforate the dots but sufficient to bring the knife edges down to the little slot at the ends of the blank spaces between the dots & Cut out this space leaving a dash —

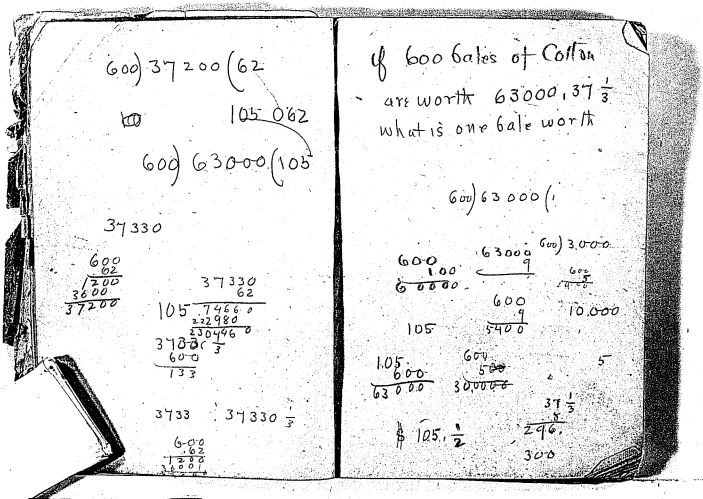


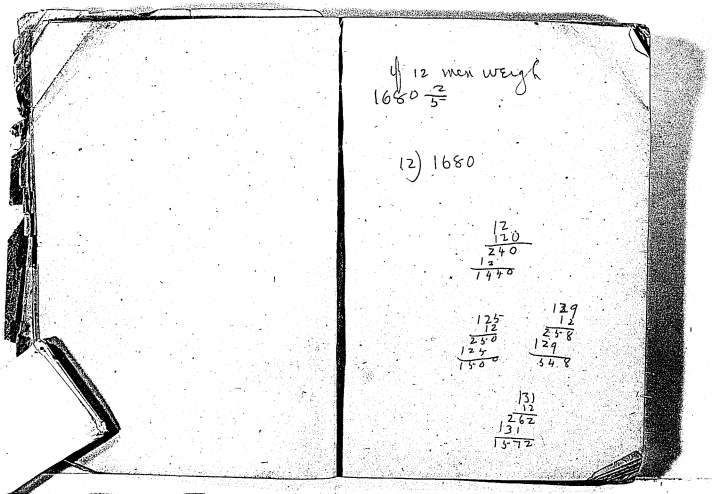
Positive Self Make and Break
s is a square slide which
runs in bearings n n' are
Springs p p' are pins upon
the slide which the armature
of the Magnet hits &
changes alternately

It will be seen thus using the Current through one magnet & then through the other = this break at will be seen prevents the armature from making strokes of unequal length the parts being so arranged that the armature must complete its full incursion before a change of Current takes place etc etc —

Printing Telegraph Paper feed




600) 37200 (62
600
105 062
600) 63000 (105
37330
600
62
1200
36000
37200
37330
62
105 7466 0
232980
230946
3783
600
133
3733 . 37330 1/3
600
62
1200
If 600 bales of Cotton
are worth 63000, 37 1/3
what is one bale worth
600) 63 000 (
600) 3.000
600
100
6 0000
63000
9
600
5
4000
600
9
105
5400
10.000
105.
600
63 0000
600
5
30.0000
5
37 1/3
5
296.
105. 1/2
300



If 12 men weigh
1680 $\frac{2}{5}$

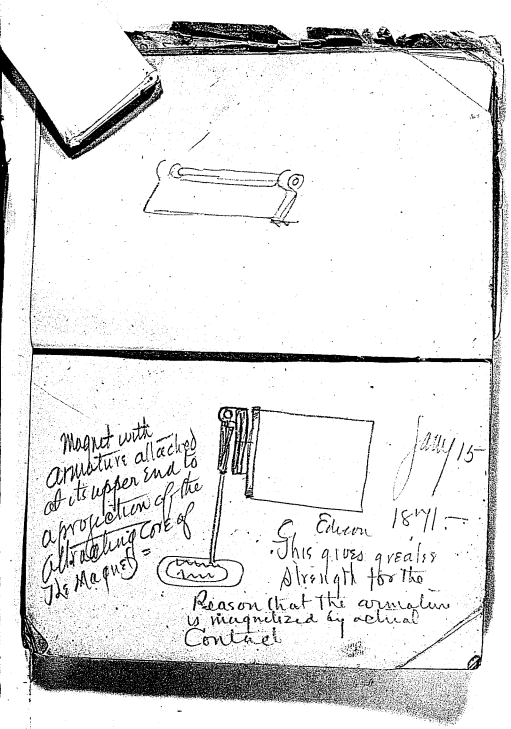
12) 1680

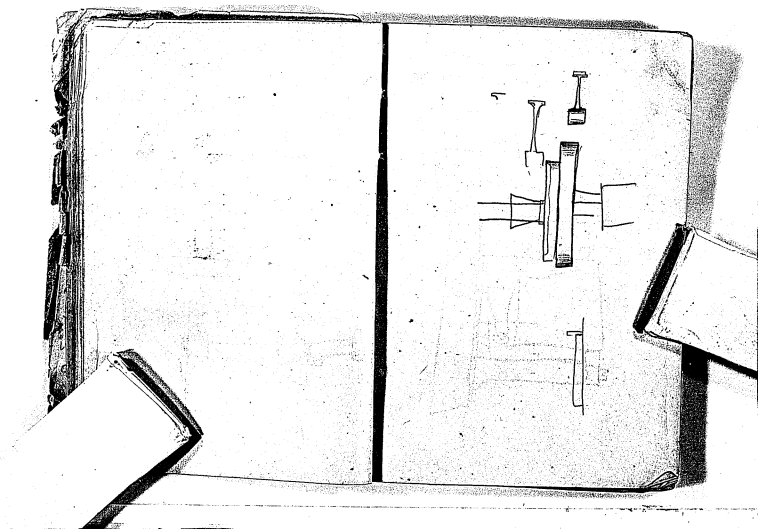
12
120
240
12
1440

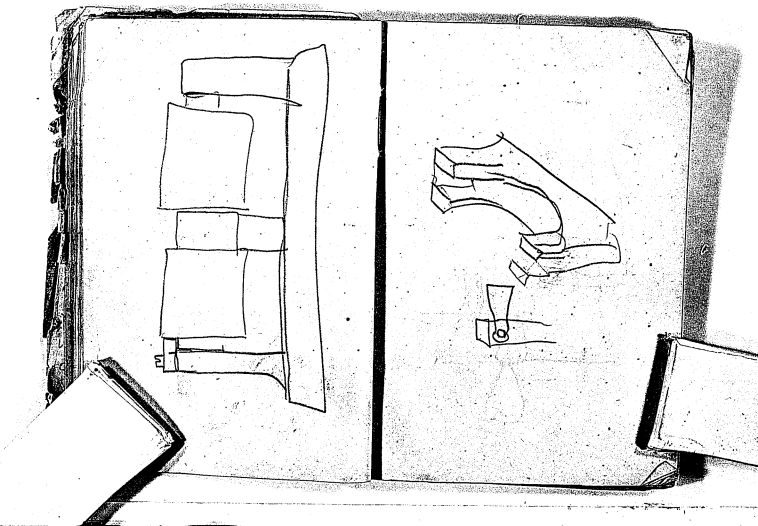
125
12
250
125
1500

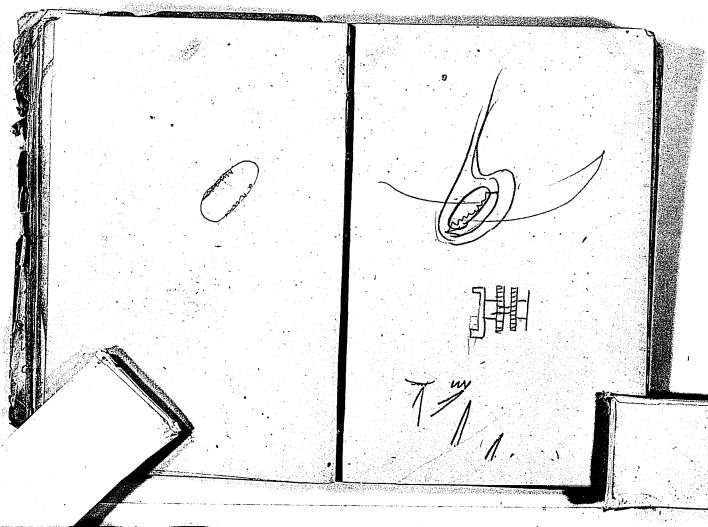
129
12
258
129
348

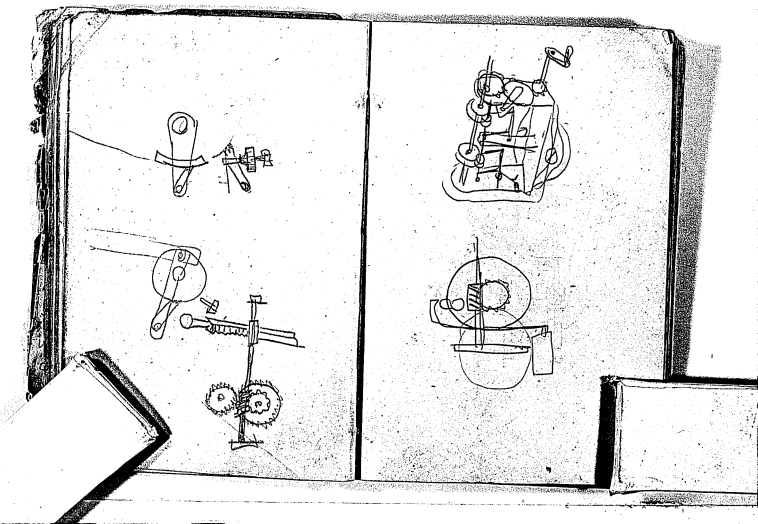
131
12
262
131
1572

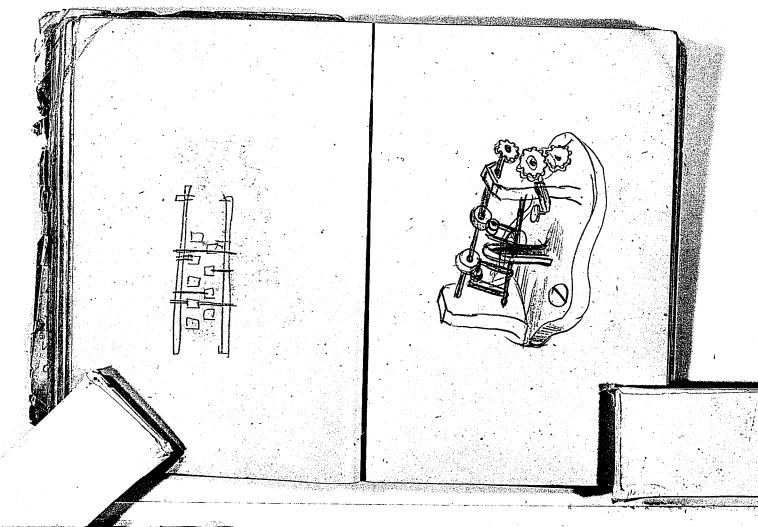

Magnet with armature attached at its upper end to a projection of the Alternating Core of the Magnet
Jan/15
G. Edison 1871
This gives great Strength for the
Reason that the armature is magnetized by actual
Contact

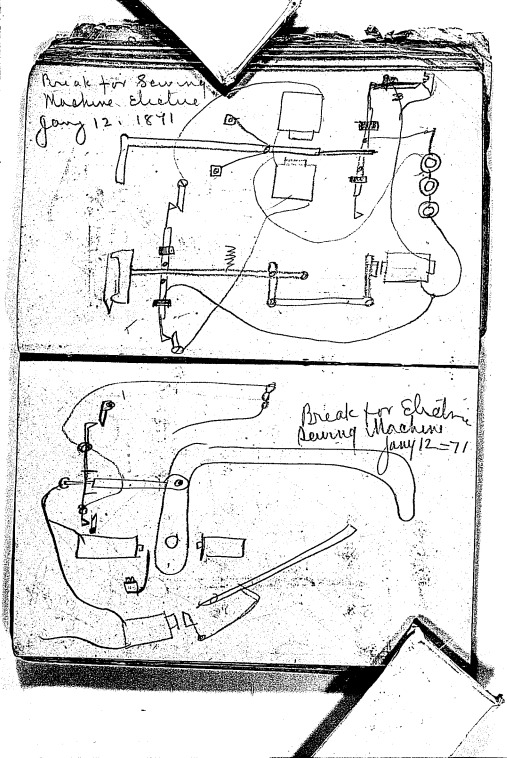


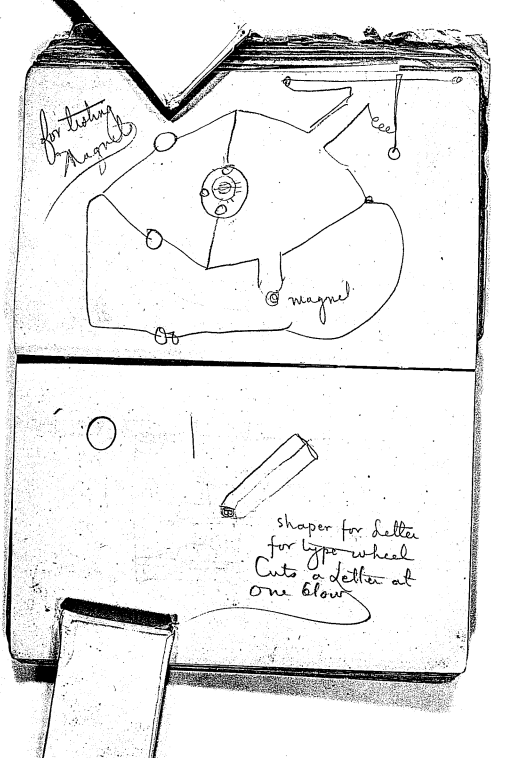


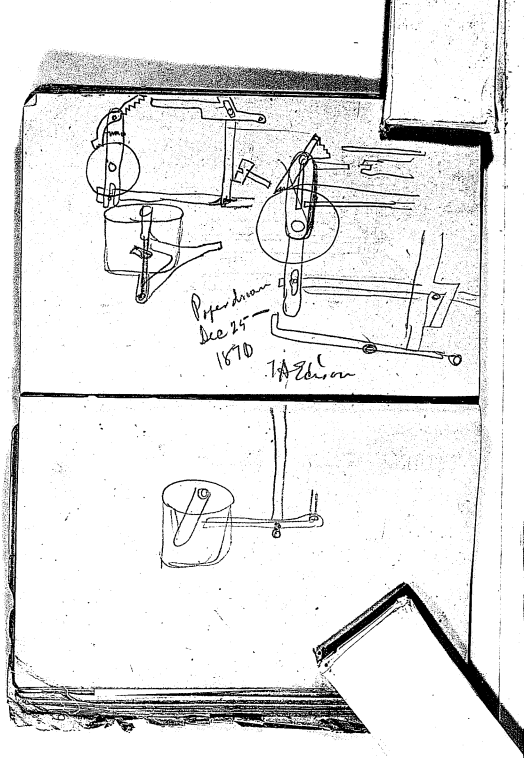


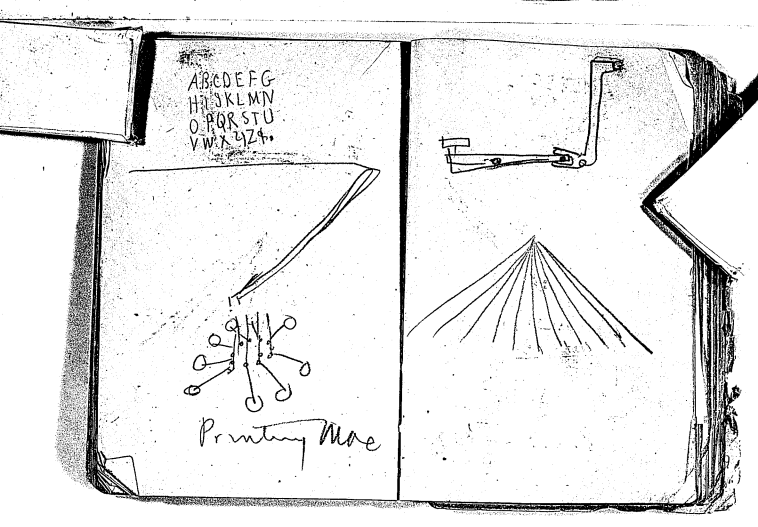


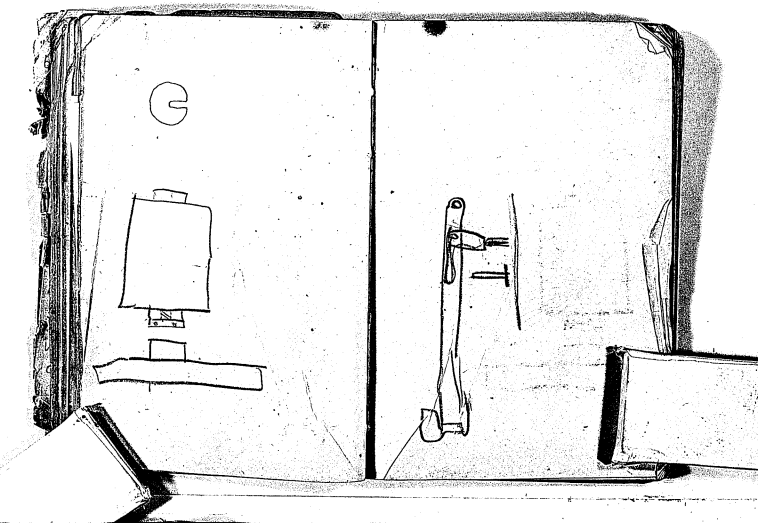


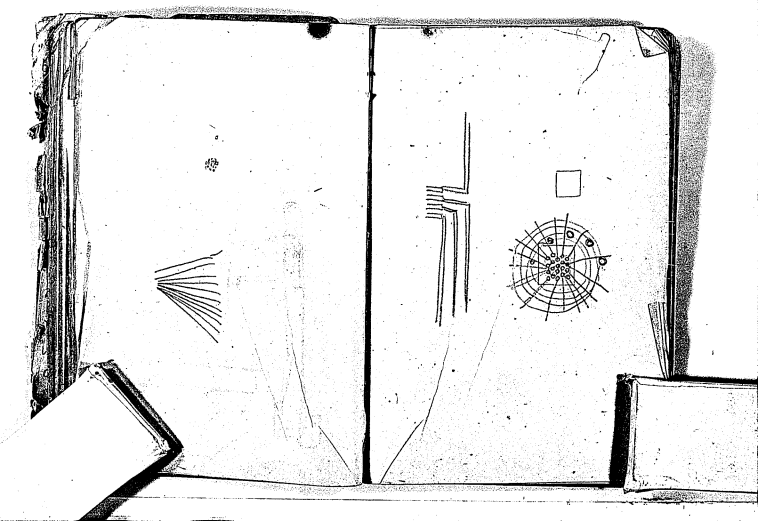

Break for Sewing Machine. Electric
Jany 12. 1871
Break for Electric Sewing Machine
Jany 12=71

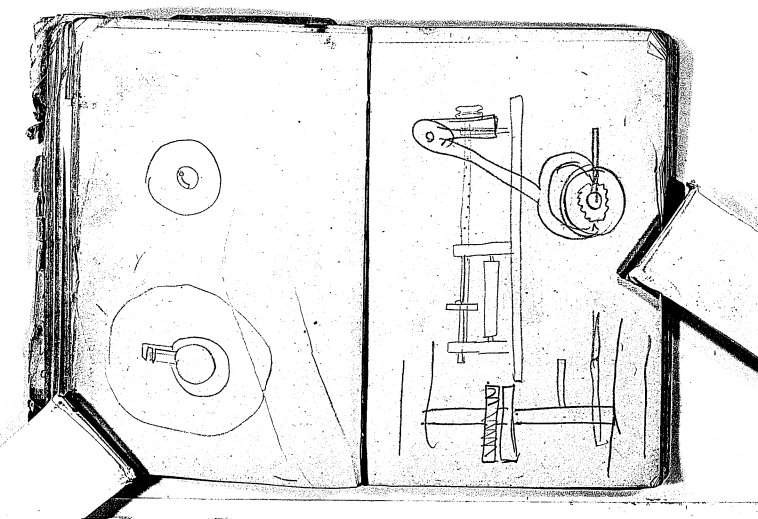

for testing Magnet
magnet
shaper for letter for type wheel
Cuts a letter at one blow

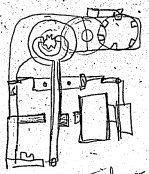

Pyrodrum
Dec 25
1870
T A Edison


A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z &.
Printing Machine









alternating apparatus

Jany 13-71

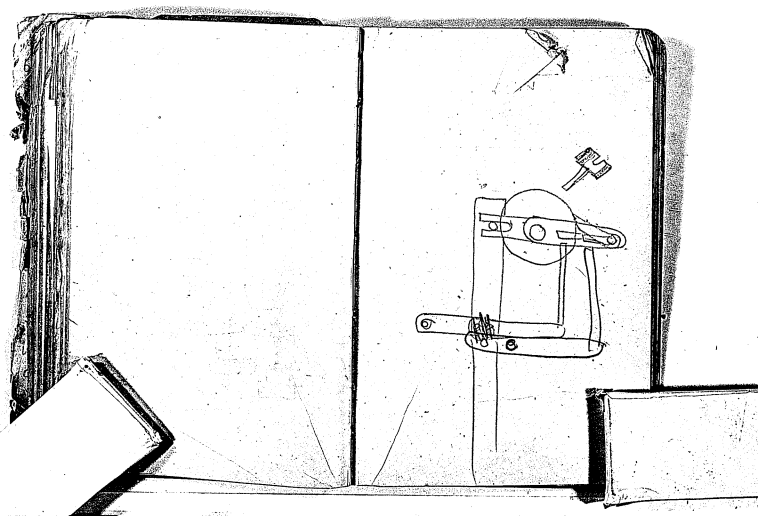
G

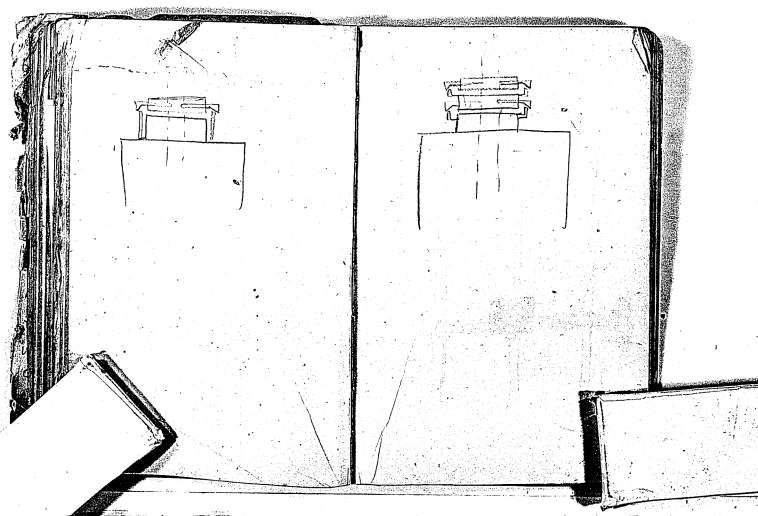
47

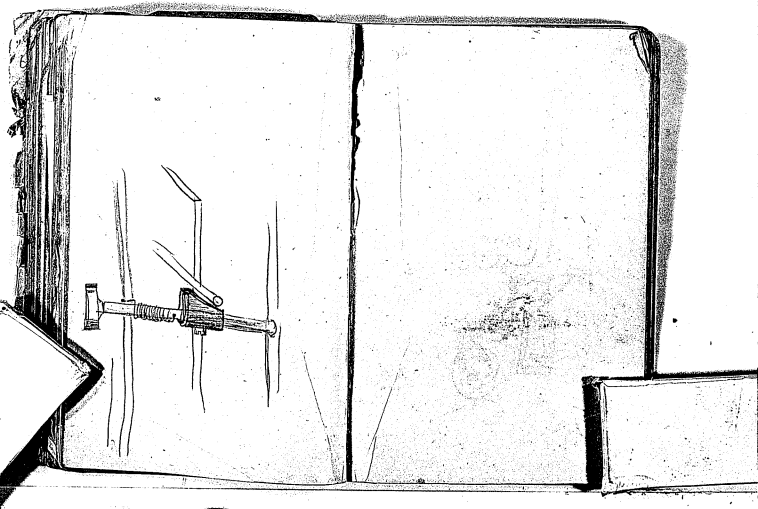
Have a differential gear to on Sewing Machine for alternating Calling in Cellar = or use a Daniells big Cricks to get small Resistance Put a pasteur break on Engine and introduce the term Mag by winding last Layer Separate + Heating a quick Current in

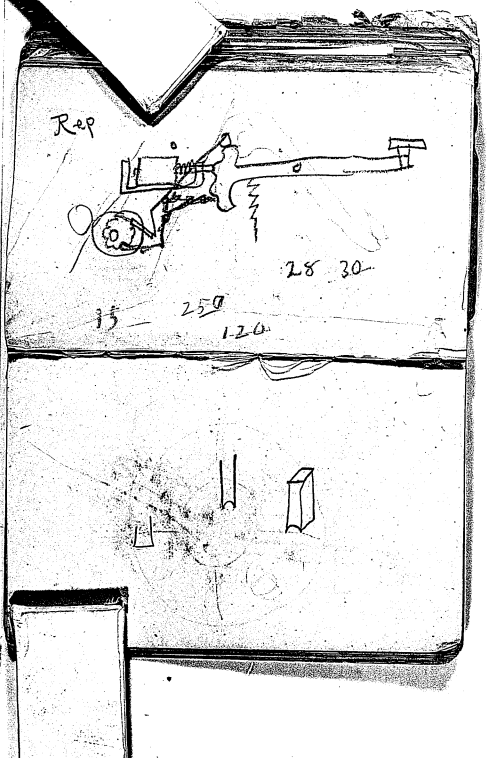
Jany 13 71

E

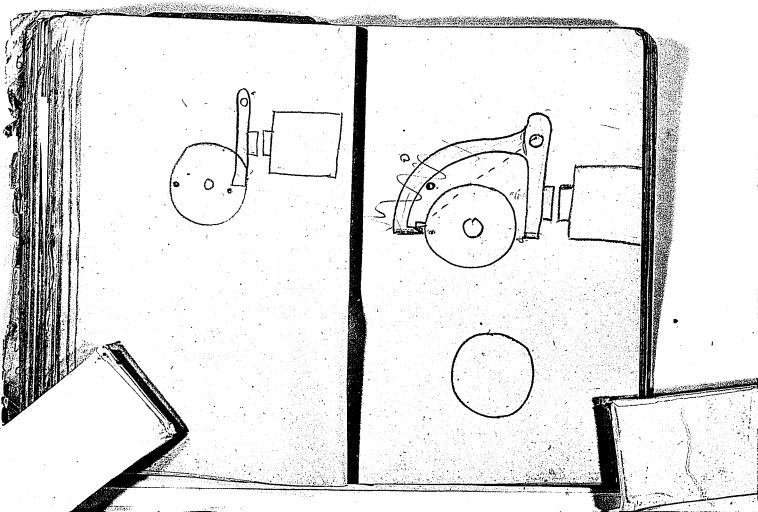


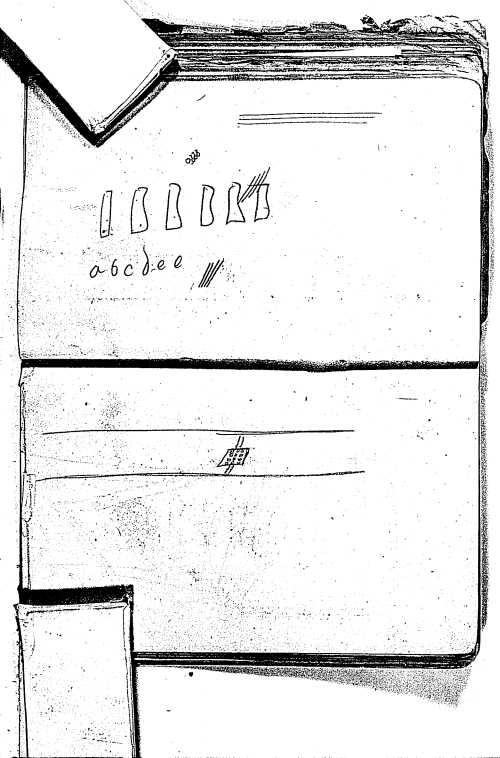


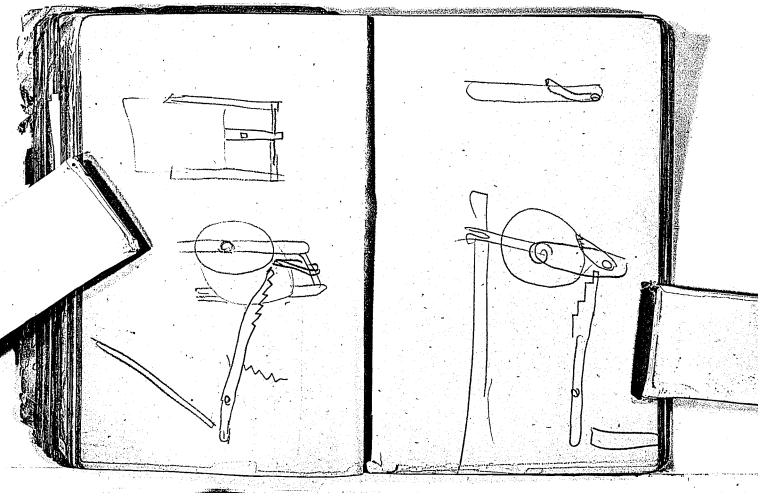


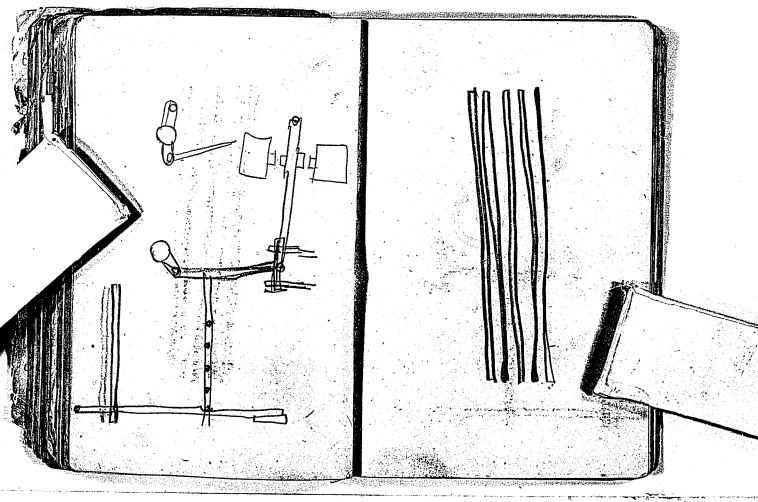

Rap
28 30
15
250
120

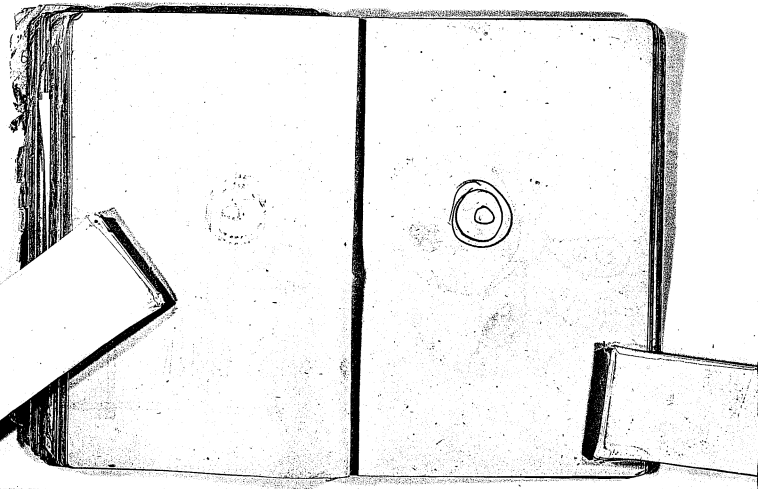
0
20
120

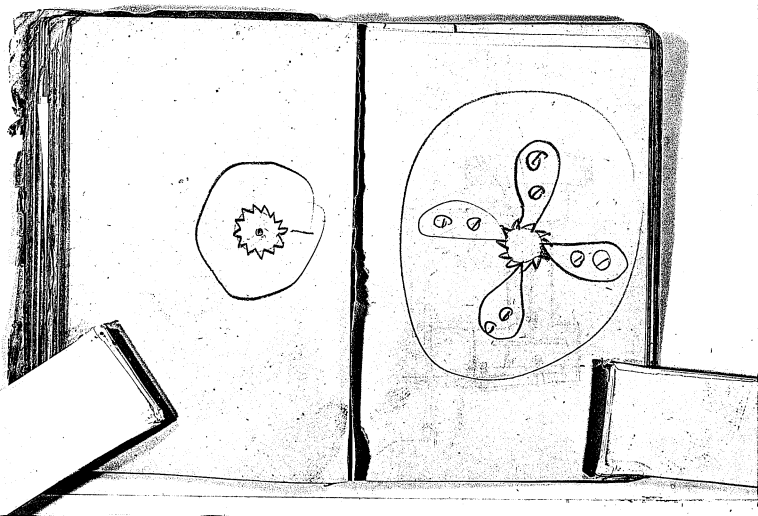


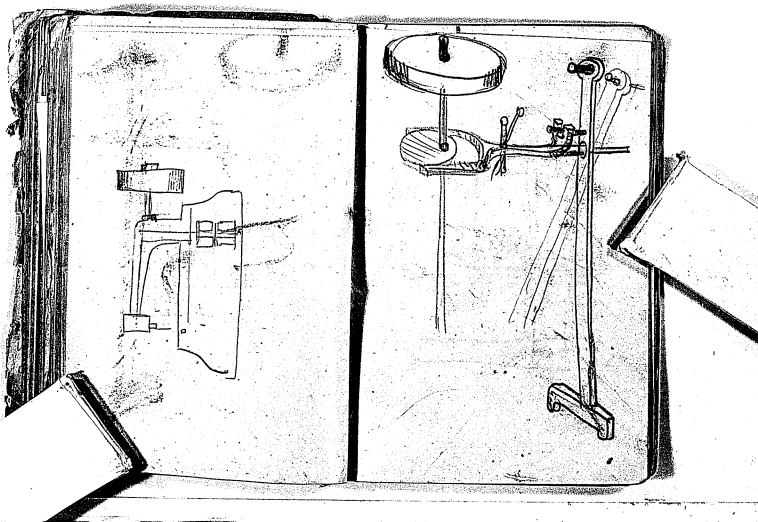

abcdee

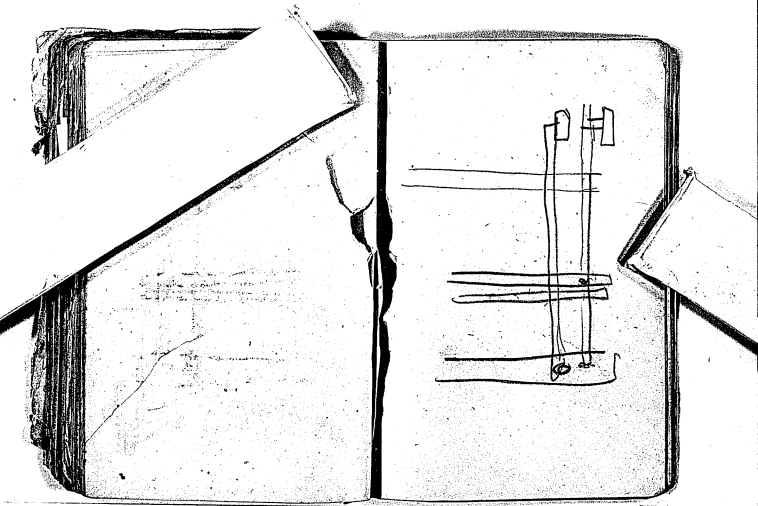


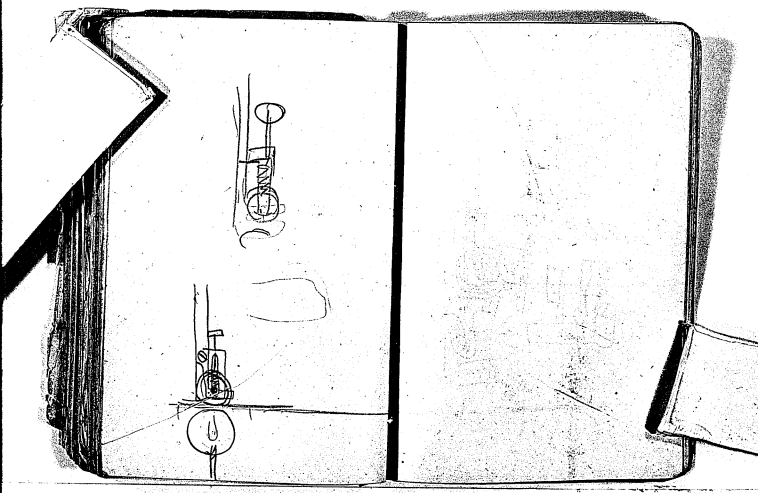


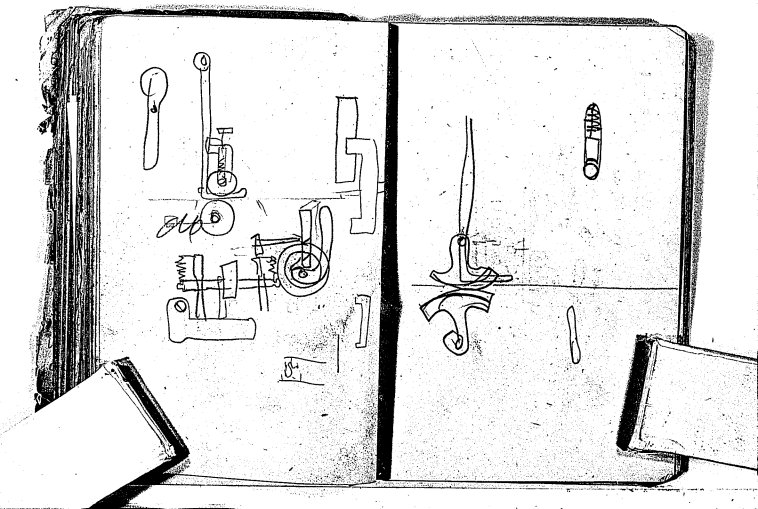




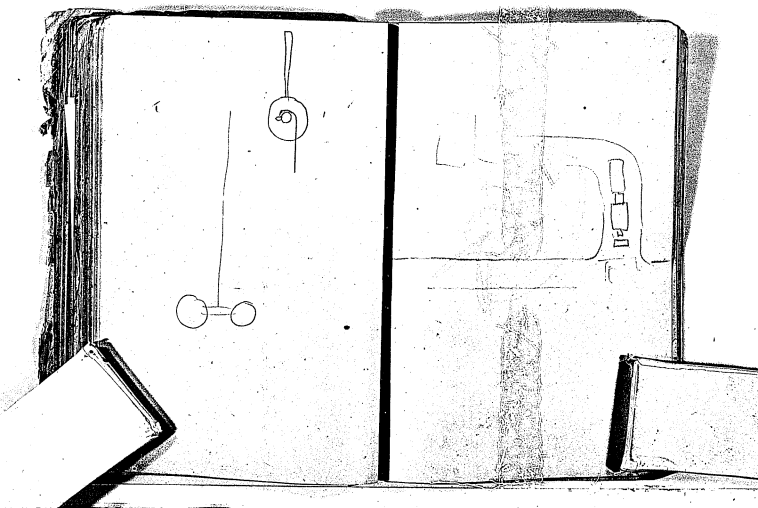


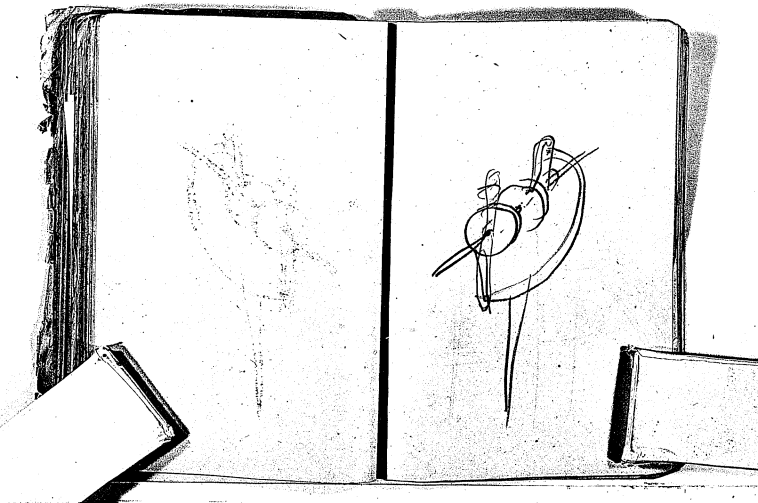


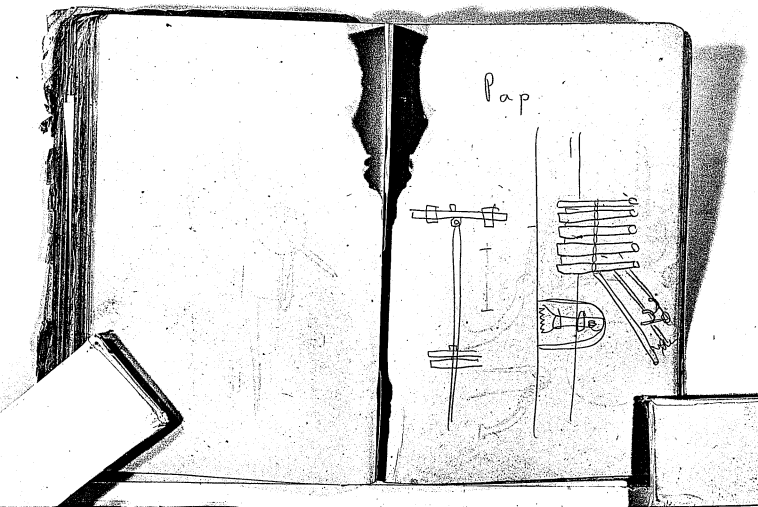


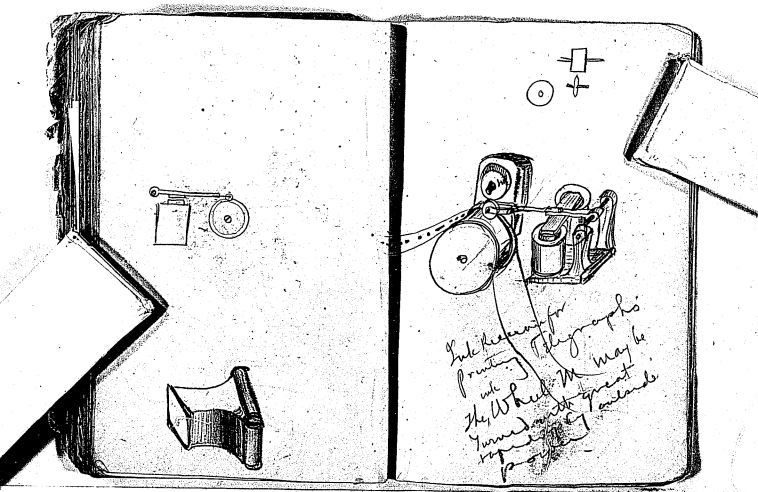


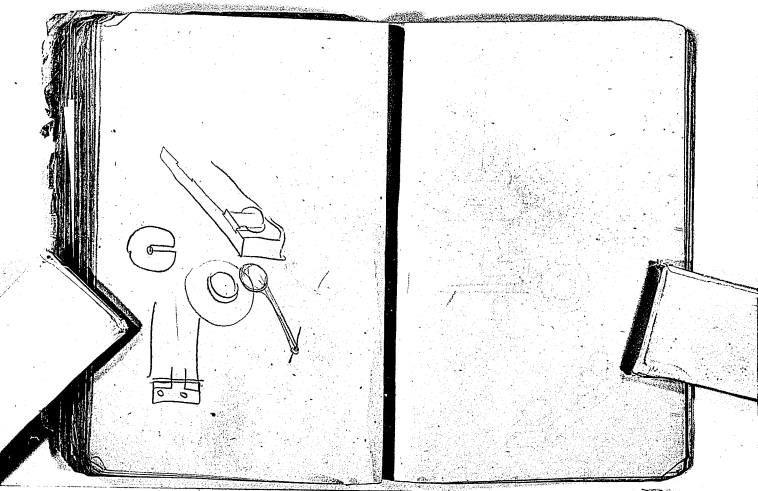
abba
Bab
Aba
Ababa
A. Abba Babba

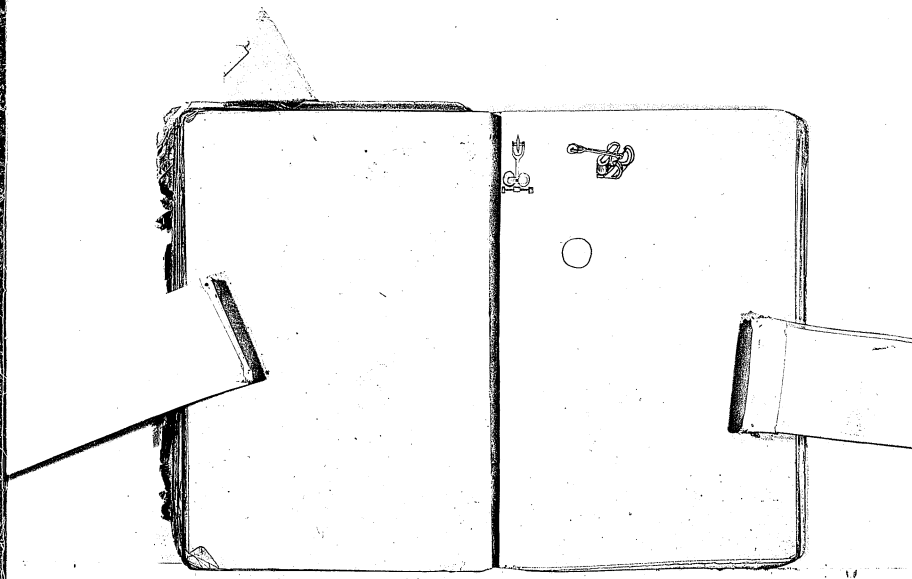


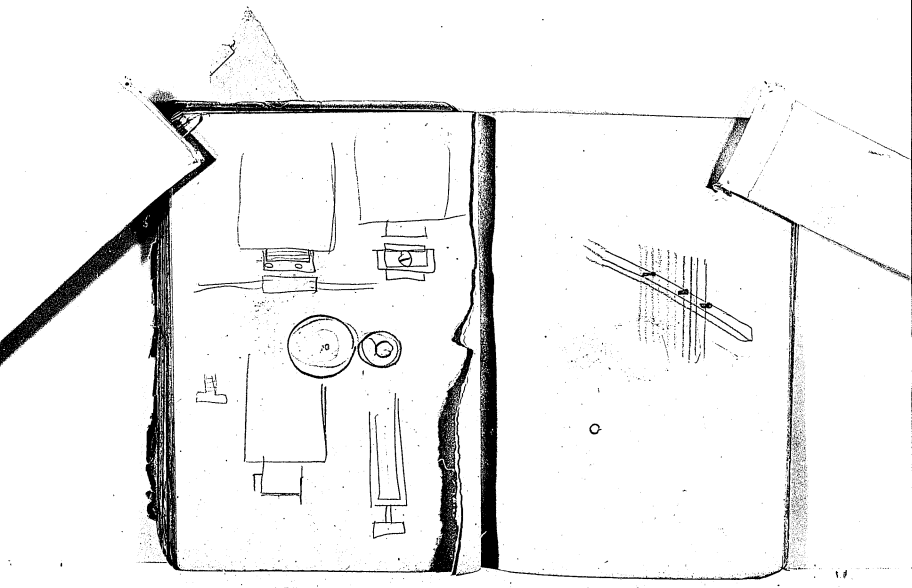


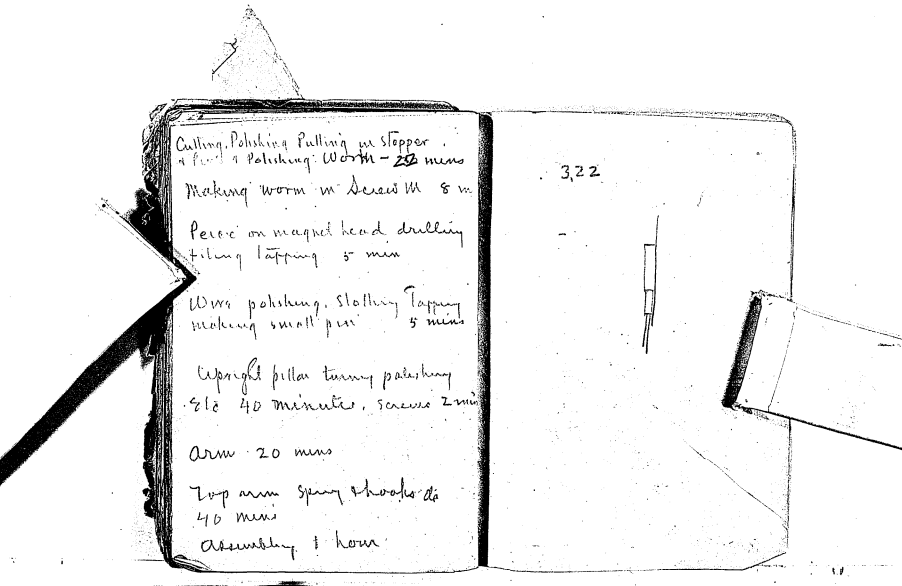
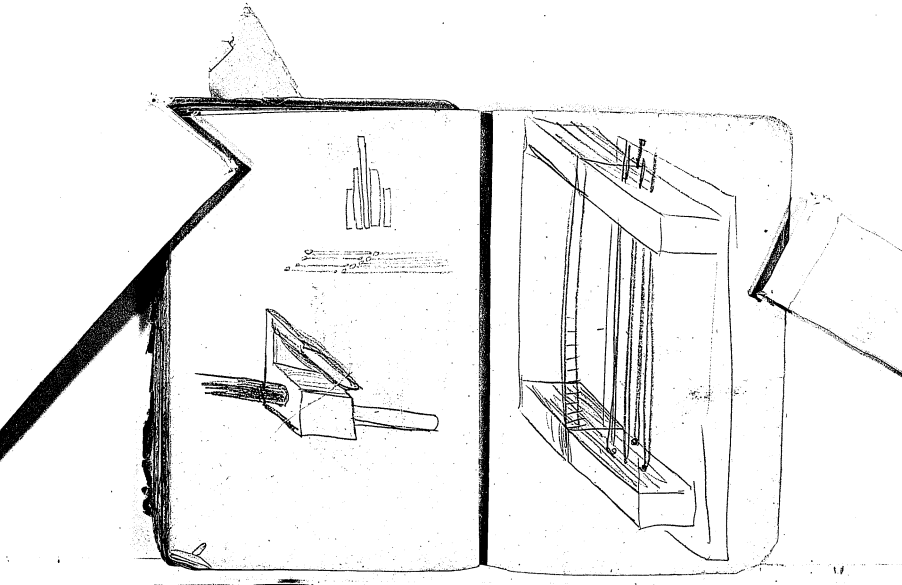

Pap


Ink Ribbon for
Printing
Telegraphic
ink
The Wheel M may be
Turned with great
rapidity 4 seconds
per line








Cutting, Polishing Pulling in Stopper
& Fixed & Polishing: Worth – 20 mins
Making worm in screw M 8 m
Perce on magnet head drilling
tiling Tapping 5 mins
Wire polishing, Stoning Tapping
making small pin 5 mins
Upright pillar turning polishing
& 18 40 minutes, screws 2 min
arm 20 mins
Top arm spring & hooks do
40 mins
Assembling 1 hour
3,22